

## HU-25A Guardian #524 07/25/17

Aircraft: [HU-25A Guardian - LaRC #524](#) (See full schedule)

Flight Number: OIB Summer Science Data Flight #5 & #6

Payload Configuration: ATM

Nav Data Collected: No

Total Flight Time: 7.2 hours

Submitted by: Luci Crittenden on 07/25/17

### Flight Segments:

From:	BGTL	To:	BGTL
Start:	07/25/17 11:10 Z	Finish:	07/25/17 14:55 Z
Flight Time:	3.7 hours		
Log Number:	<a href="#">17F001</a>	PI:	Nathan Kurtz
Funding Source:	Thomas Wagner - NASA - SMD - ESD Cryospheric Science		
Purpose of Flight:	Science		
Comments:	The HU-25A Falcon completed 2 data flights today in support of Operation IceBridge in Thule, Greenland. Data Flight #5 was the Greely North mission.		

From:	BGTL	To:	BGTL
Start:	07/25/17 15:50 Z	Finish:	07/25/17 19:22 Z
Flight Time:	3.5 hours		
Log Number:	<a href="#">17F001</a>	PI:	Nathan Kurtz
Funding Source:	Thomas Wagner - NASA - SMD - ESD Cryospheric Science		
Purpose of Flight:	Science		
Comments:	and Data Flight #6 was the Convergence West 2 mission.		

### Flight Hour Summary:

	<b>17F001</b>
Flight Hours Approved in SOFRS	44.2
Total Used	39.5
Total Remaining	4.7

### 17F001 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">07/10/17</a>	OIB Summer Science ICF	Check	3.7	3.7	40.5	
<a href="#">07/12/17</a>	2017 OIB Summer Science Transit	Transit	2.9	6.6	37.6	
<a href="#">07/12/17</a>	2017 OIB Summer Science Transit	Transit	2.3	8.9	35.3	
<a href="#">07/13/17</a>	2017 OIB Summer Science Transit BGSF-BGTL	Transit	1.9	10.8	33.4	
<a href="#">07/17/17</a>	OIB Summer Science Data Flight#1	Science	3.8	14.6	29.6	
<a href="#">07/18/17</a>	OIB Summer Science Data Flight #2	Science	3.7	18.3	25.9	
<a href="#">07/19/17</a>	OIB Summer Science Data Flight #3	Science	2.7	21	23.2	
<a href="#">07/24/17</a>	OIB Summer Science Data Flight #4	Science	3.9	24.9	19.3	
<a href="#">07/25/17</a>	OIB Summer Science Data Flight #5 & #6	Science	3.7	28.6	15.6	

<a href="#">07/25/17</a>	OIB Summer Science Data Flight #5 & #6	Science	3.5	32.1	12.1
<a href="#">07/26/17</a>	OIB Transit Legs BGTL-BGSF-KBGR	Transit	2	34.1	10.1
<a href="#">07/26/17</a>	OIB Transit Legs BGTL-BGSF-KBGR	Transit	3.7	37.8	6.4
<a href="#">07/27/17</a>	OIB Transit Leg KBGR-KLFI	Transit	1.7	39.5	4.7

*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

#### Related Science Report:

### OIB - HU-25A Guardian #524 07/25/17 Science Report

**Mission:** OIB

#### Mission Summary:

OIB flew the Greeley North mission today. This mission expands our flight coverage as far west as cloud conditions allow us in the Arctic Ocean north of Ellesmere Island's Greeley Fjord. Part of the flight followed advected sea ice from the CryoVEx-2 and South Basin Transect spring missions. We also overflew two buoy sites provided by Ignatius Rigor at 13:44:04Z and 13:46:31Z.

Weather was overcast during the western part of the flight and cleared towards the east. Our nominal flight altitude was under all clouds during the mission for another good flight without data loss due to weather. The DMS camera had an error near the start of the eastern line and had to be swapped out which caused about 20 minutes of data loss.

Some opportunistic data over ice on Ellesmere Island was collected as well.

Data volumes/time

ATM: 42 Gb

FLIR: 3.7 Gb

DMS: 25.3 Gb

Headwall: 44 Gb

data on: 11:39

data off: 13:57

**File:**

 [greeley\\_north\\_map.pdf](#)

**Submitted by:** Nathan T. Kurtz on 07/25/17

### OIB - HU-25A Guardian #524 07/25/17 Science Report

**Mission:** OIB

#### Mission Summary:

OIB flew the Convergence West 2 mission which completes the experiment from the first flight of the campaign on 7/17/17 to study sea ice thickness change due to the piling up of sea ice (or convergence) as the movement of ice pushes it up against the coast. The flight is a near-repeat of the first mission, but has been adjusted to follow the same sea ice surveyed previously using ice motion tracking data provided by Ron Kwok. Weather was clear for the entire mission and good data was collected throughout.

Some opportunistic data over ice on Ellesmere Island was collected as well.

Data volumes

ATM: 30 Gb  
FLIR: 3.1 Gb  
DMS: 30 Gb  
Headwall: 26 Gb

**File:**



[convergence\\_west\\_2.pdf](#)

**Submitted by:** Nathan T. Kurtz on 07/25/17

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